

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Original): An IP router including an IP(Internet Protocol) routing table which stores routing information for connecting a plurality of client devices with an original server which is at least an origin of supplying a content and with a plurality of mirror servers into which the content supplied from the original server is copied, the IP router comprising:

means for ending a connection relating to a packet output from a specific port of the client device and obtaining request information of a content requested by the client device;

means for selecting an optimum server for the request information based on information which is to be an index for selecting an optimum server if the obtained request information corresponds to the plurality of mirror servers, and based on the routing information;

means for obtaining the content by connecting with the optimum server selected; and

means for transferring the obtained content to the client device.

2. (Currently Amended): The IP router, as claimed in claim 1, further comprising:

means for detecting ~~that, from~~ a change in contents of the IP routing table[[,]];

means for detecting a change in a network topology based on the detected change in the contents of the IP routing table~~has been changed~~;

means for altering a selection criteria of the optimum server based on a result of detecting that the network topology has been changed; and

means for altering a band setting for each service class corresponding to a traffic change ~~accompanying an alteration of the selection criteria.~~

3. (Currently Amended): The IP router, as claimed in claim 1, wherein the information to be an index for selecting the optimum server ~~is comprises~~ at least one of:  
information for driving/stopping state per server,  
~~RTT(Round-Trip Time)~~Round-Trip Time (RTT) information, or  
throughput information.

4. (Original): The IP router, as claimed in claim 1, wherein the means for selecting an optimum server selects the optimum server by additionally considering a past access track record.

5. (Currently Amended): The IP router, as claimed in claim 1, further comprising:  
~~wherein~~  
means for detecting a change in the IP routing table and performing a health check for obtaining the index information; per server, which is to be an index for selecting the optimum server is performed when a based on the detected change in the IP routing table is recognized.

6. (Currently Amended): The IP router, as claimed in claim 2, further comprising:  
means for monitoring a changing situation of the traffic for a predetermined ~~certain~~  
period of time, which monitoring means is triggered by the detected topology change, wherein  
the means for altering the band setting alters the band setting for each service class by using a  
result of monitoring the changing situation of the traffic, ~~performed by the means, as a trigger.~~

7. (Currently Amended): A communication system comprising:  
a plurality of client devices;  
an original server which at least serves as an origin of supplying a content;  
a plurality of mirror servers which mirror servers copy and hold the content supplied  
from the original server; and

an Internet Protocol (IP) IP(Internet Protocol) router coupled to the client devices via a client side interface, which IP router connects for connecting the plurality of client devices with the original server and the plurality of mirror servers over via a network[[:]], wherein the IP router includes:

an ~~IP(Internet Protocol)~~ Internet Protocol (IP) routing table which stores for storing routing information, and comprises:

means for ending a connection relating to a packet output from a specific port of the client device[[:]] and obtaining request information of a content requested by the client device;

means for identifying the mirror servers comprising the content requested based on the obtained request information and selecting an optimum server for the request information based on an index information which is to be an index for selecting an optimum server if the obtained request information corresponds to the plurality of mirror servers, and based on the routing information; and

means for obtaining the content by connecting with the optimum server selected; and

means for transferring the obtained content to the client device.

8. (Currently Amended): The communication system, as claimed in claim 7, wherein the IP router further comprises comprising:

~~means for transferring the obtained content to the client device;~~

means for detecting ~~that, from~~ a change in contents of the IP routing table;[[:]]

means for detecting a change in a network topology based on the detected change in contents of the IP routing table has been changed;

means for altering a selection criteria of the optimum server based on a result of detecting that the network topology has been changed; and

means for altering a band setting for each service class according to a traffic change ~~accompanying an alteration of the selection criteria.~~

9. (Currently Amended): The communication system, as claimed in claim 7, wherein the index information ~~to be an index for selecting an optimum server~~ is comprises at least one of:

information for driving/stopping state per server,  
~~RTT(Round-Trip Time)~~ Round-Trip Time (RTT) information, or  
throughput information.

10. (Original): A communication system, as claimed in claim 7, wherein the means for selecting an optimum server selects the optimum server by additionally considering a historical access track record.

11. (Currently Amended): The communication system, as claimed in claim 7, wherein the IP router further comprises:

means for detecting a change in the IP routing table and performing ~~wherein~~ a health check for obtaining the index information, per server, ~~which is to be an index for selecting the optimum server~~ ~~is performed when a~~ based on the detected change in the IP routing table is recognized.

12. (Currently Amended): The communication system, as claimed in claim ~~[[7]]~~ 8, wherein the IP router further comprises comprising:

means for monitoring a changing situation of the traffic for a predetermined ~~certain~~ period of time, wherein the means for altering the band setting alters the band setting for each service class according to a result of monitoring the changing situation of the traffic, ~~performed by the means.~~

13. (Original): A band setting method of an IP router for setting a band when connecting a plurality of client devices with an original server which at least serves as an origin

of supplying a content and with a plurality of mirror servers which copy and hold the content over a network based on routing information of a routing table provided in an IP(Internet Protocol) router, the band setting method comprising the steps of:

- ending a connection relating to a packet output from a specific port of the client device, and obtaining request information of a content requested by the client device;

- selecting an optimum server for the request information based on information which is to be an index for selecting an optimum server if the obtained request information corresponds to the plurality of mirror servers, and based on the routing information;

- obtaining the content by connecting with the optimum server selected;

- transferring the obtained content to the client device;

- detecting, from a change in contents of the IP routing table, that a network topology has been changed;

- altering a selection criteria of the optimum server based on a result of detecting that the network topology has been changed; and

- altering a band setting for each service class according to a traffic change accompanying an alteration of the selection criteria.

14. (Currently Amended): The band setting method, as claimed in claim 13, wherein the information to be an index for selecting an optimum server ~~[[is]]~~ comprises at least one of:

- information for driving/stopping state per server,

- ~~RTT(Round-Trip Time)~~Round-Trip Time (RTT) information, or
- throughput information.

15. (Currently Amended): The band setting method, as claimed in claim 13, wherein ~~a process of the step for selecting an optimum server is the process of~~comprises:

- selecting the optimum server by additionally considering a historical access track record.

16. (Currently Amended): The band setting method, as claimed in claim 13, wherein a health check for obtaining information, per server, which is to be an index for selecting the optimum server, is performed when a change in the IP routing table is recognized.

17. (Currently Amended): The band setting method, as claimed in claim 13, further comprising: ~~step for~~

monitoring a changing situation of the traffic for a predetermined ~~certain~~ period of time, ~~wherein the step for and~~

altering the band setting ~~alters the band setting for~~ each service class according to a result of monitoring the changing situation of the traffic, ~~performed by the step.~~

18. (Currently Amended): A computer-readable medium holding software program for setting a band by an Internet Protocol (IP) IP(Internet Protocol) router which sets a band when connecting a plurality of client devices with an original server which is at least an origin of supplying a content and with a plurality of mirror servers which copy and hold the content over a network based on routing information of a routing table provided in the IP an IP(Internet Protocol) router, which software [[the]] program is a program as an electric signal for causing an when executed by a computer of the IP router to execute causes the computer to perform operations comprising a method of:

~~a process of~~ ending a connection relating to a packet output from a specific port of the client device, and obtaining request information of a content requested by the client device;

~~a process of~~ selecting an optimum server for the request information based on information which is to be an index for selecting an optimum server if the obtained request information corresponds to the plurality of mirror servers, and based on the routing information;

~~a process of~~ obtaining the content by connecting with the selected optimum server; and

~~a process of~~ transferring the obtained content to the client device.

19. (Currently Amended): The medium program, as claimed in claim 18, ~~as an electric signal for applying, and causing the computer of the IP router to execute~~ wherein the method further comprises:

~~a process of~~ detecting, from a change in contents of the IP routing table, that a network topology has been changed;

~~a process of~~ altering a selection criteria of the optimum server based on a result of detecting that the network topology has been changed; and

~~a process of~~ altering a band setting for each service class according to a traffic change accompanying an alteration of the selection criteria.

20. (New): A method comprising at least one of downloading software to a computer, which when executed by the computer causes the computer to perform operations comprising the method of claim 13, or providing software to download to a computer, which when executed by the computer causes the computer to perform operations comprising the method of claim 13.